

ABSTRACT

An object of the invention is to make an apparatus compact and simplify a structure. The invention provides a motion control apparatus which is provided with a pressing member pressing a fluid, and a fluid control mechanism (130) controlling a movement of the fluid pressed by the pressing member. The fluid control mechanism (130) closes a first flow path (123) through which the fluid pressed by the pressing member passes by a valve body (132) so as to block the fluid from moving, in the case where an external force applied to a movable body as a controlled object in a motion stop state is equal to or less than a predetermined value, opens the first flow path (123) so as to allow the movement of the fluid, in the case where the external force applied to the movable body goes over the predetermined value, and opens the first flow path (123) so as to be capable of continuing the movement of the fluid even if the external force is reduced to be equal to or less than the predetermined value, after the movement of the fluid is started. The motion control apparatus can hold the motion stop state of the movable body by utilizing a resistance of the fluid generated by the pressing member pressing the fluid, and further can continue the motion of the movable body by a smaller external force than that at a time of starting the motion, by means of the fluid control mechanism (130), after the motion of the movable body is started. The pressing member presses the fluid due to a rotational motion.